

SOCOM PRESENTATION

**SMALL SCALE CHEM/BIO
PRODUCTION**

TARGET TERRORISM

“Small Scale”production is about
terrorism not WMD

“Terrorism is not about killing, it
is a form of psychological warfare
in which killing of a small number
of people convinces the rest of us
that we are next in line.” Ehud
Sprinzak



THROW AWAY
"DO NOT EAT"

DESICCANT

SILICA

GEL

THROW AWAY

"DO NOT EAT"

DESICCANT

SILICA

GEL

USE OF COMMERCIAL CHEMICALS

VS

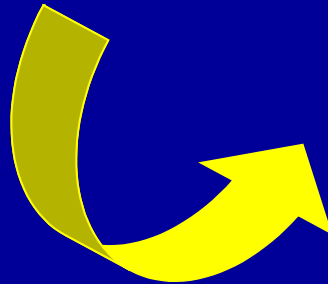
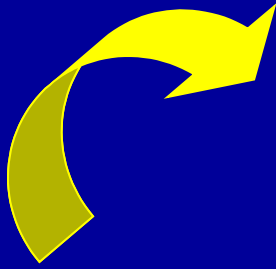
CW or BW AGENTS

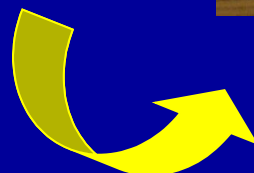
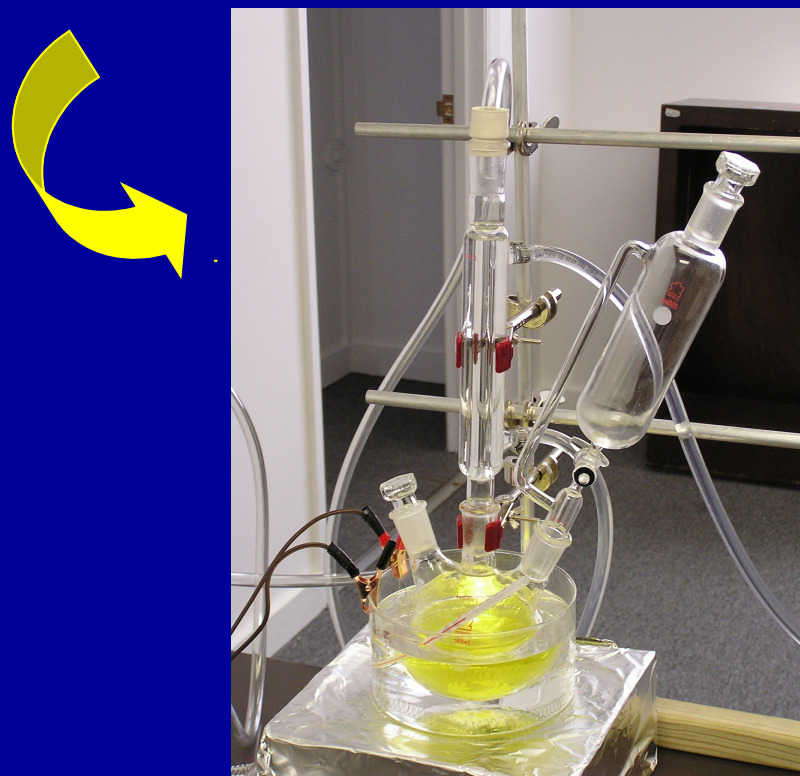
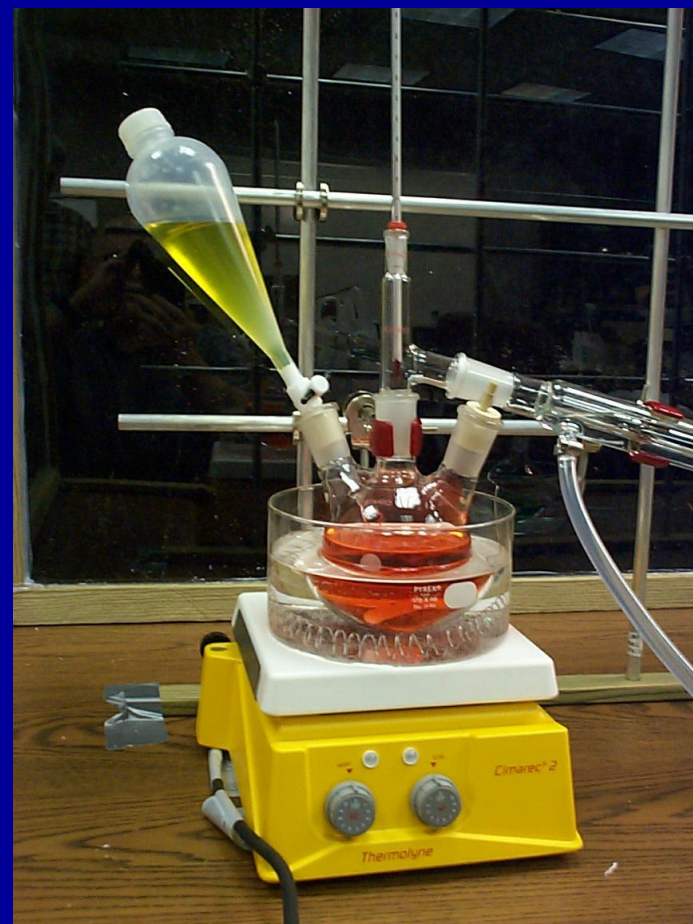
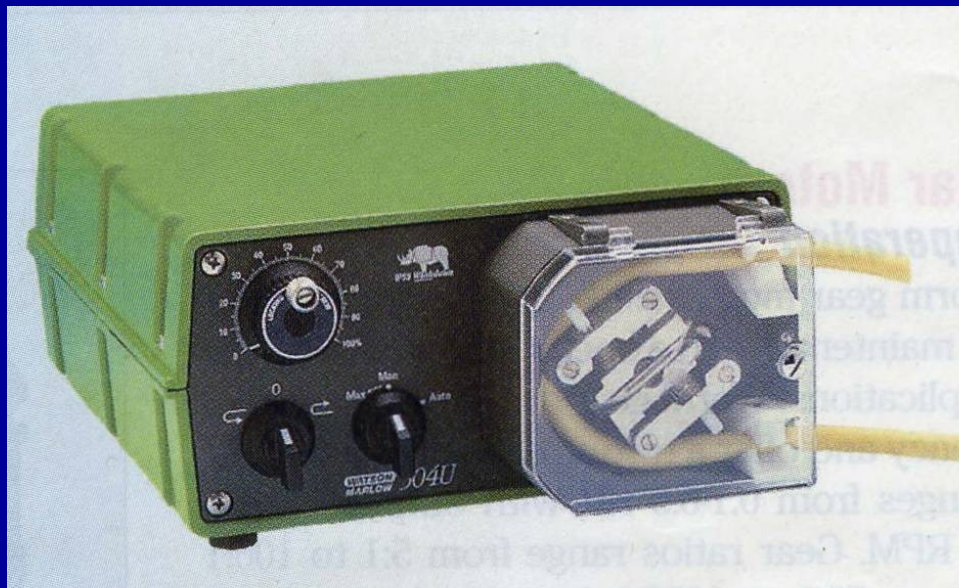
SMALL SCALE CHEM/BIO PRODUCTION

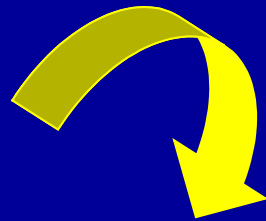
- OBJECTIVES – recognize equipment and system **capability**
- CAPABILITY – can they make product ?
- EQUIPMENT DESIGN PRINCIPLE – **good enough**
 - don't get killed before the mission is complete
 - disregard for regs – FDA, EPA, OSHA

SMALL SCALE CHEM/BIO PRODUCTION

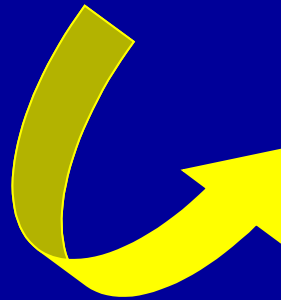
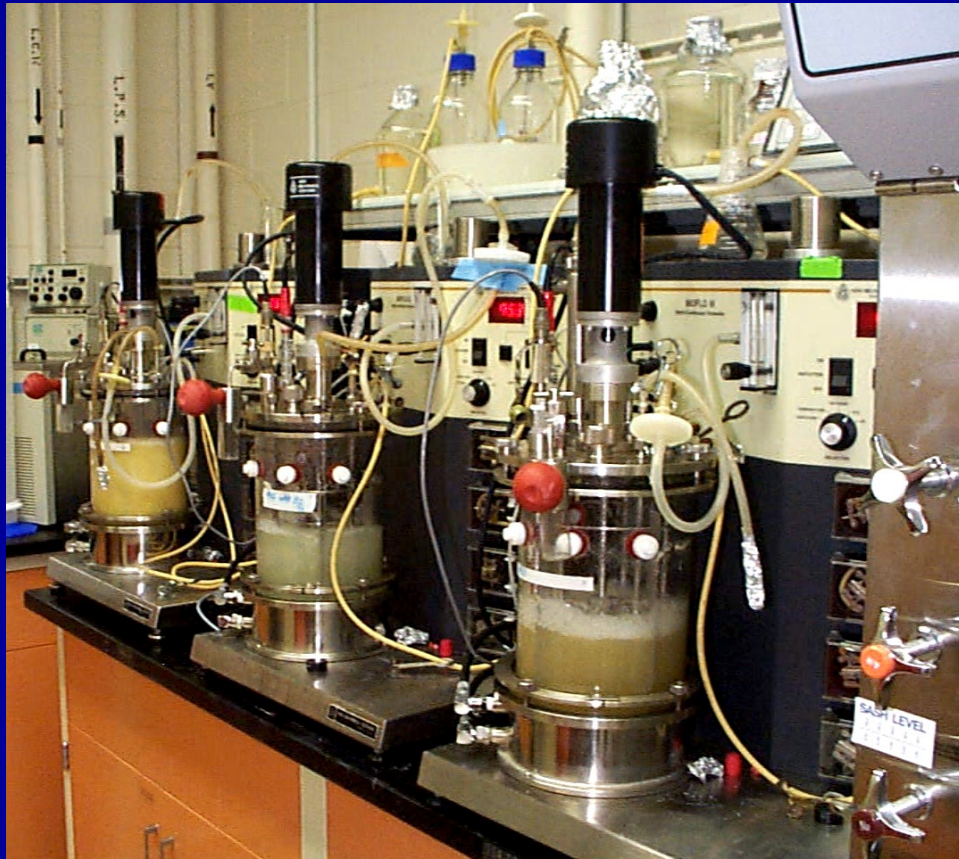
WHAT IS GOOD ENOUGH ?

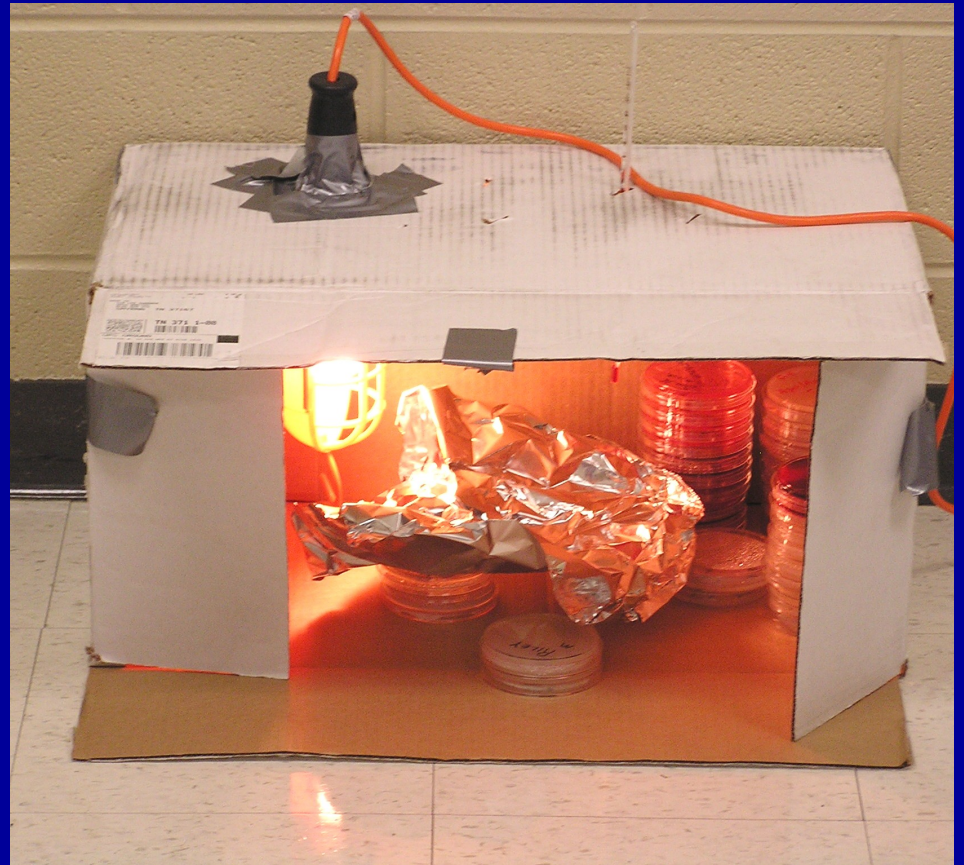
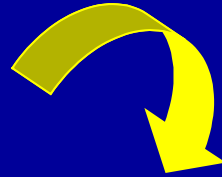
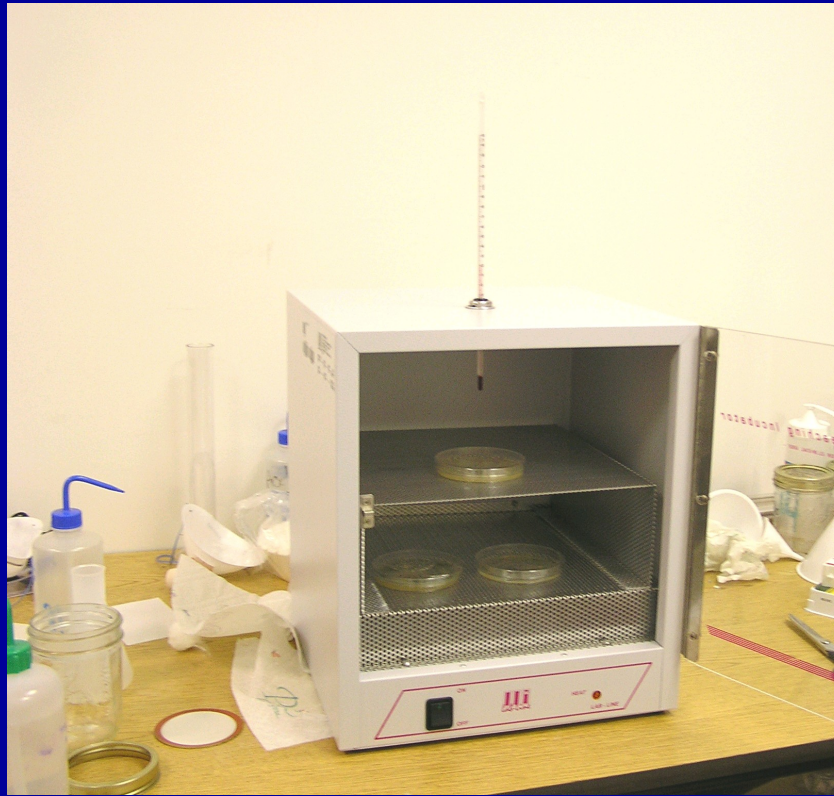












COURSE DELIVERY PROCESS

CONSULTATION WITH CUSTOMER

PURCHASE OF EQUIPMENT

- LAB EQUIPMENT COMPANIES
- USED EQUIPMENT MARKET/INTERNET
- WALMART
- PETSMART
- HOME DEPOT
- HOME BREW SUPPLY
- OTHERS



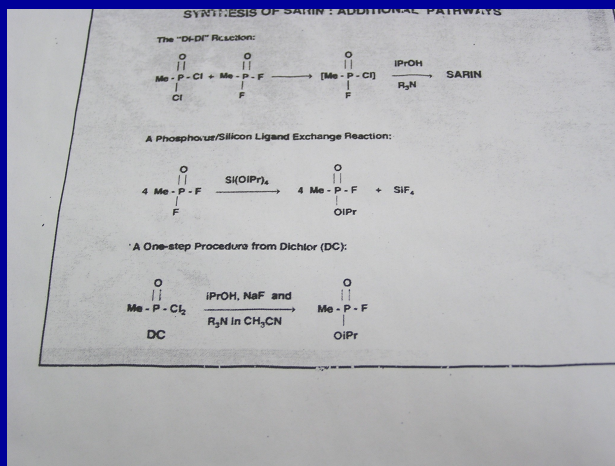
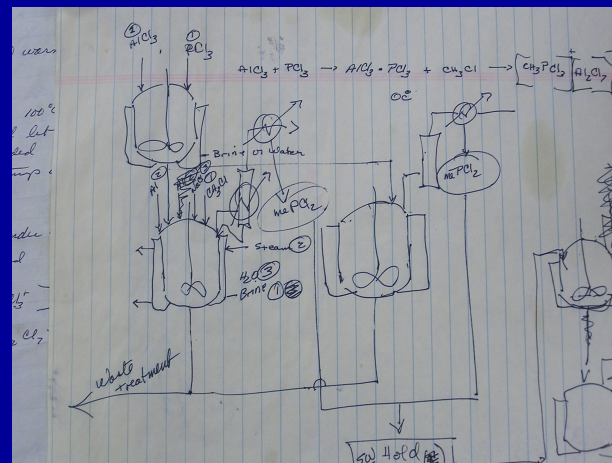
ON SITE PREPARATION



CLASS ROOM INSTRUCTION

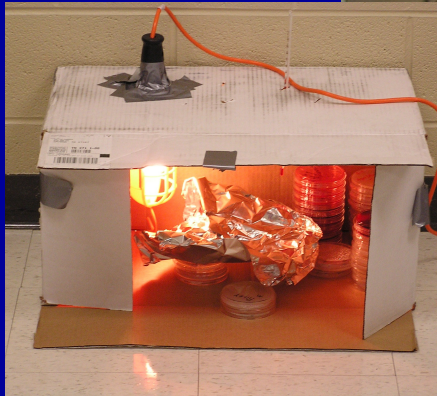


SCENARIO PREPARATION





SCENARIO PREPARATION



PARTICIPATION



PARTICIPATION



PARTICIPATION



HOT WASH AND EVALUATION

OTHER COURSES DEVELOPED AND AVAILABLE

- Chemical and Biological Engineering and Production
 - large scale production with emphasis on recognition of multipurpose/dual use **capability**
 - customized for military
 - customized for imagery analysts
- Agricultural Terrorism